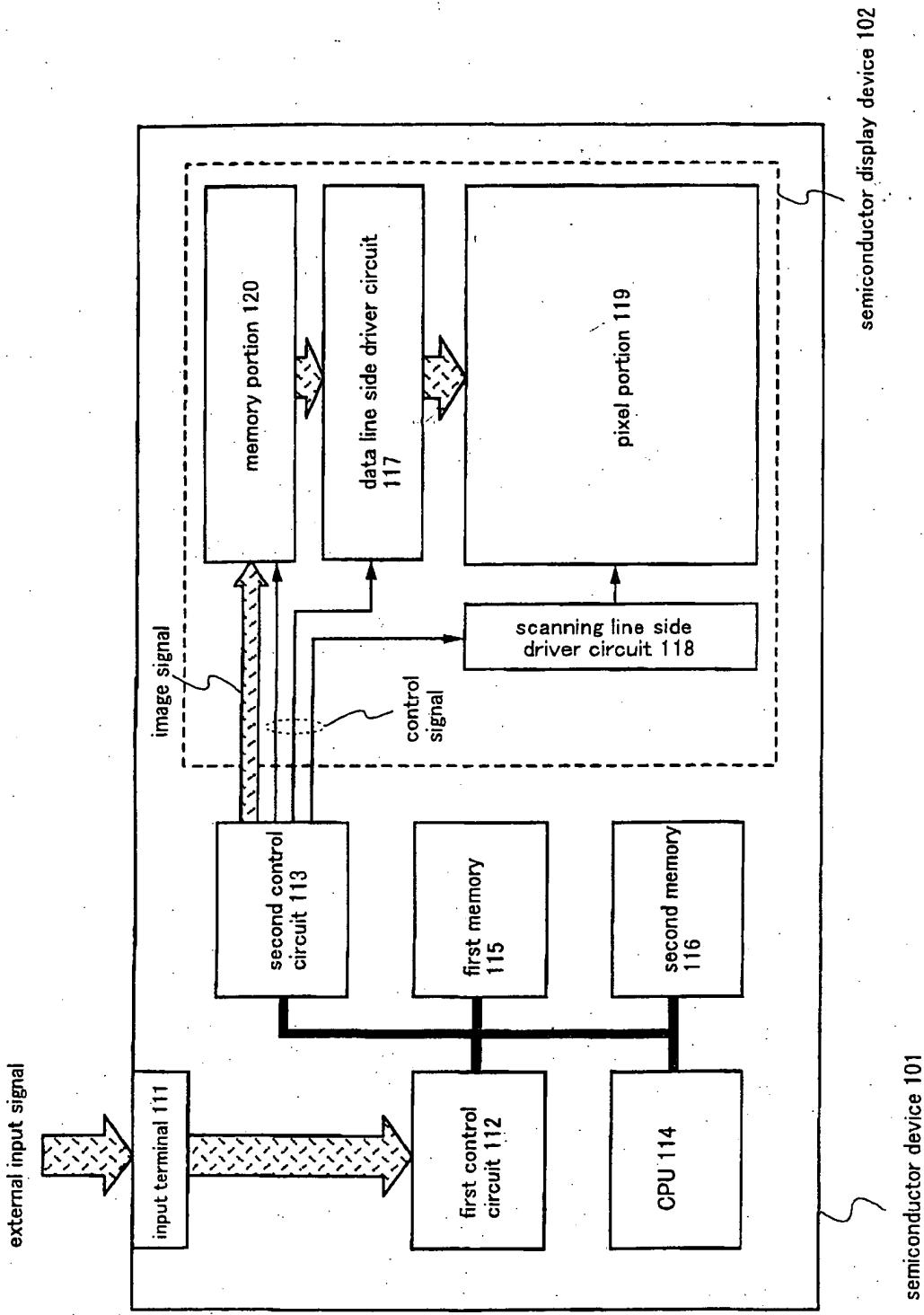
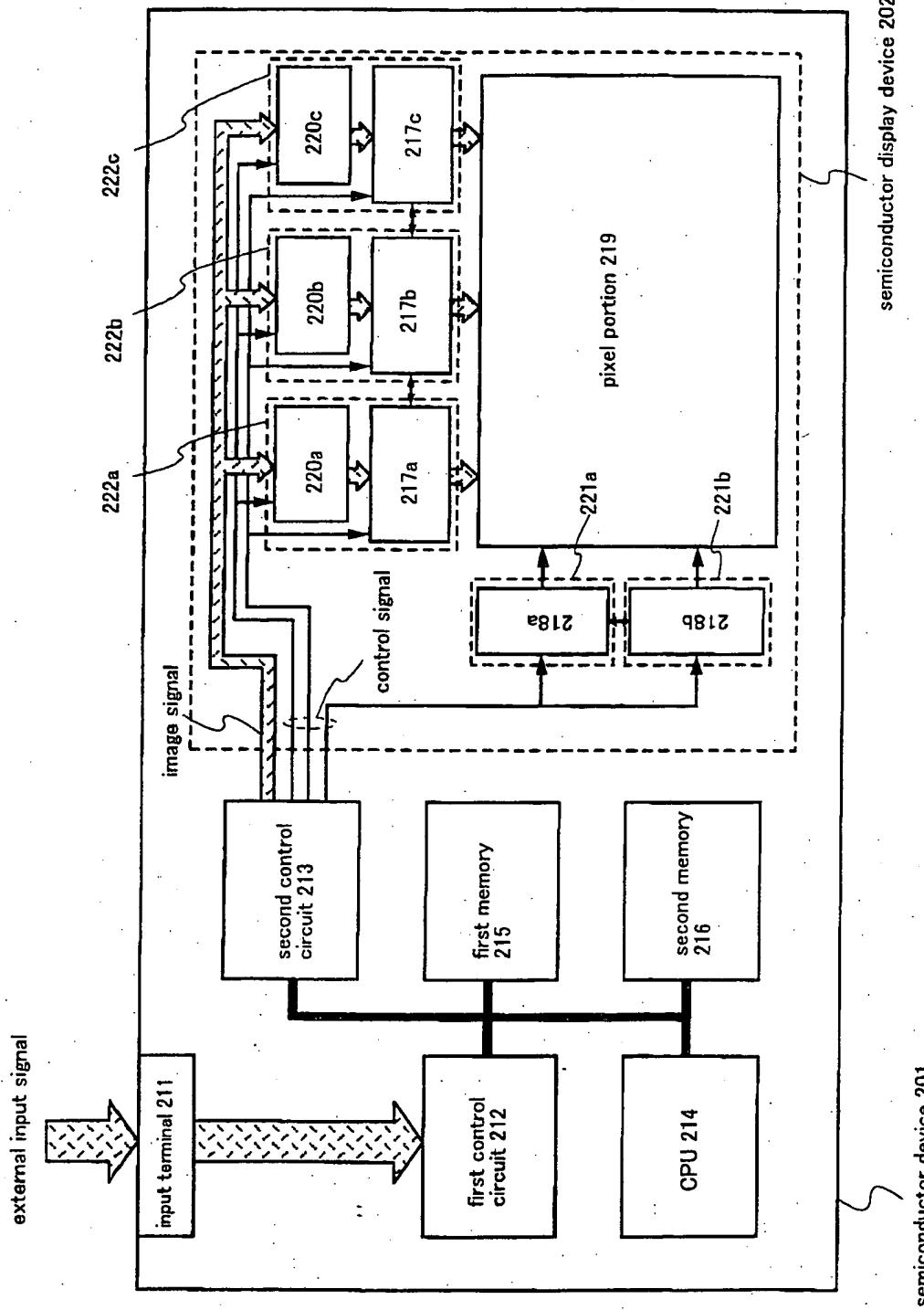


【Fig. 1】



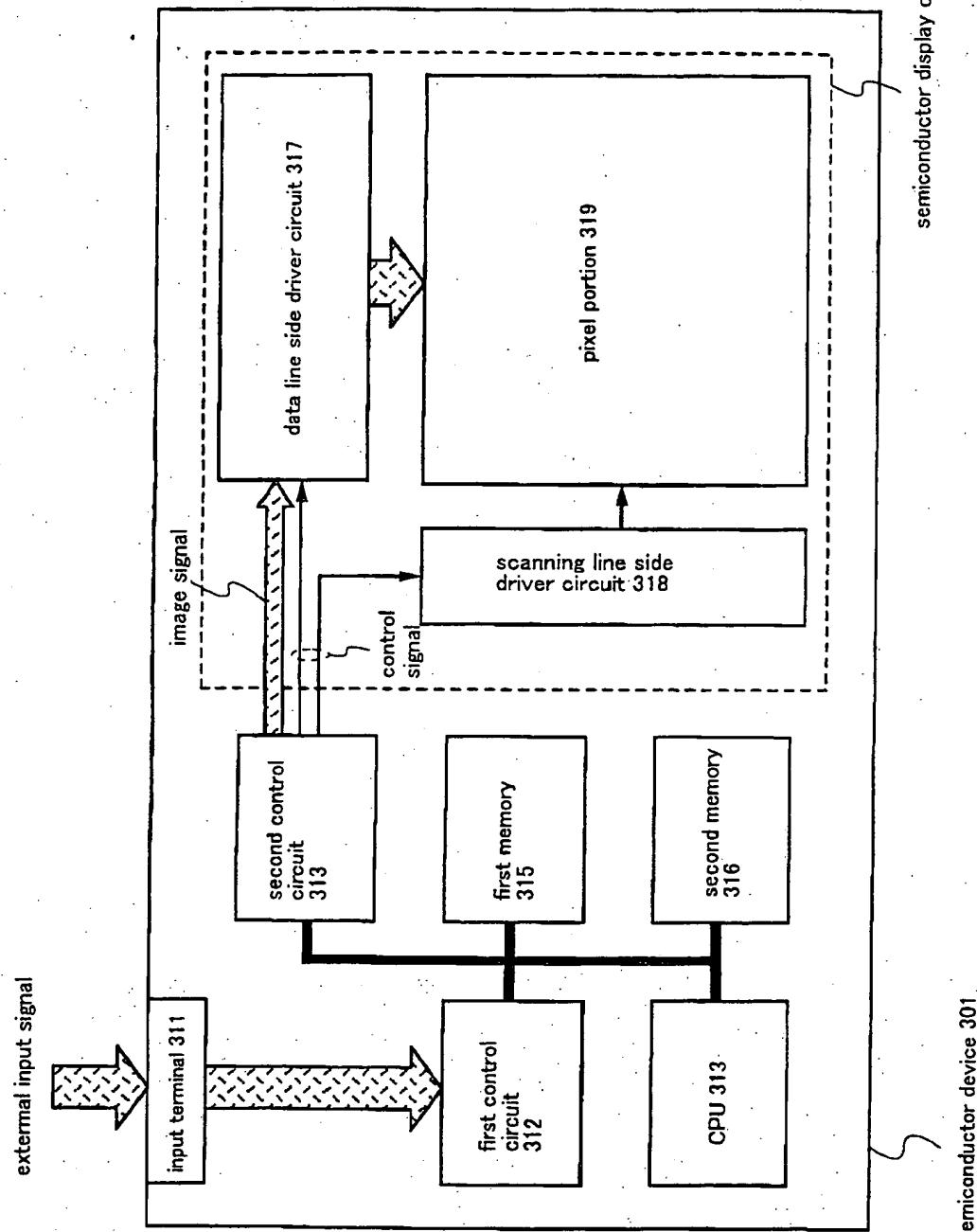
[Fig. 2]



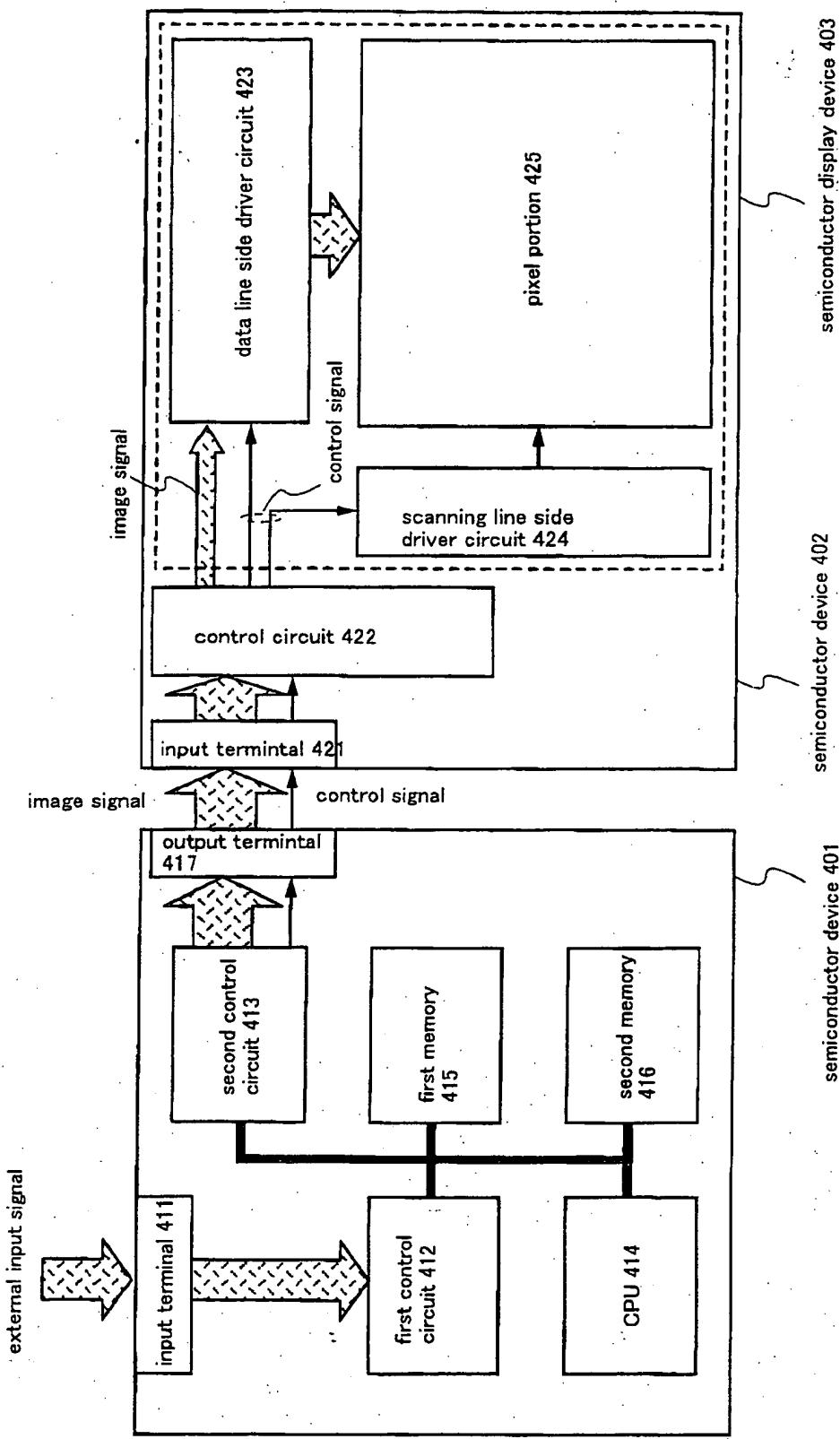
semiconductor display device 202

217a, 217b, 217c data line side driver circuit 218a, 218b scanning line side driver circuit
220a, 220b, 220c memory portion 221a, 221b scanning line side stick driver
222a, 222b, 222c data line side stick driver

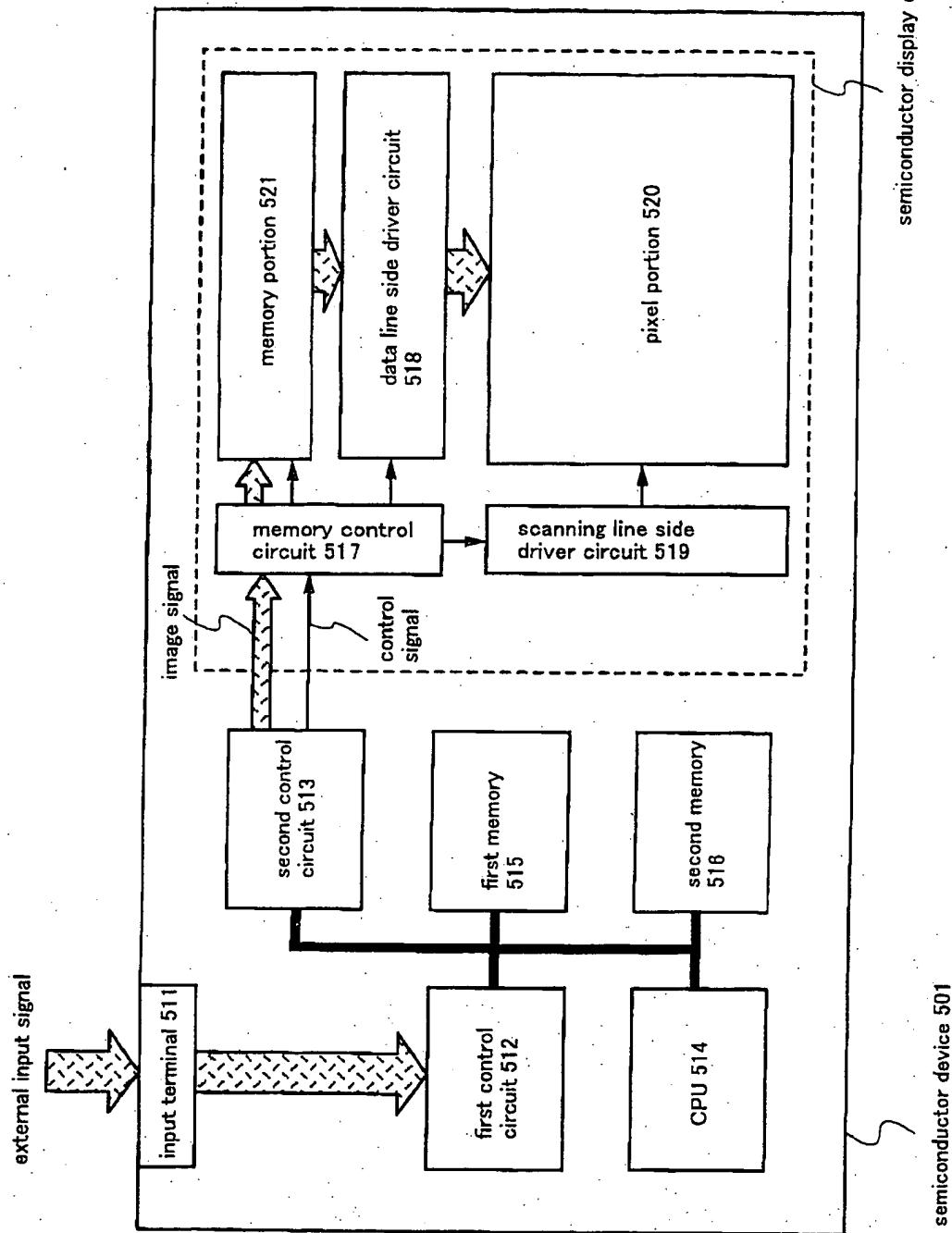
[Fig. 3]



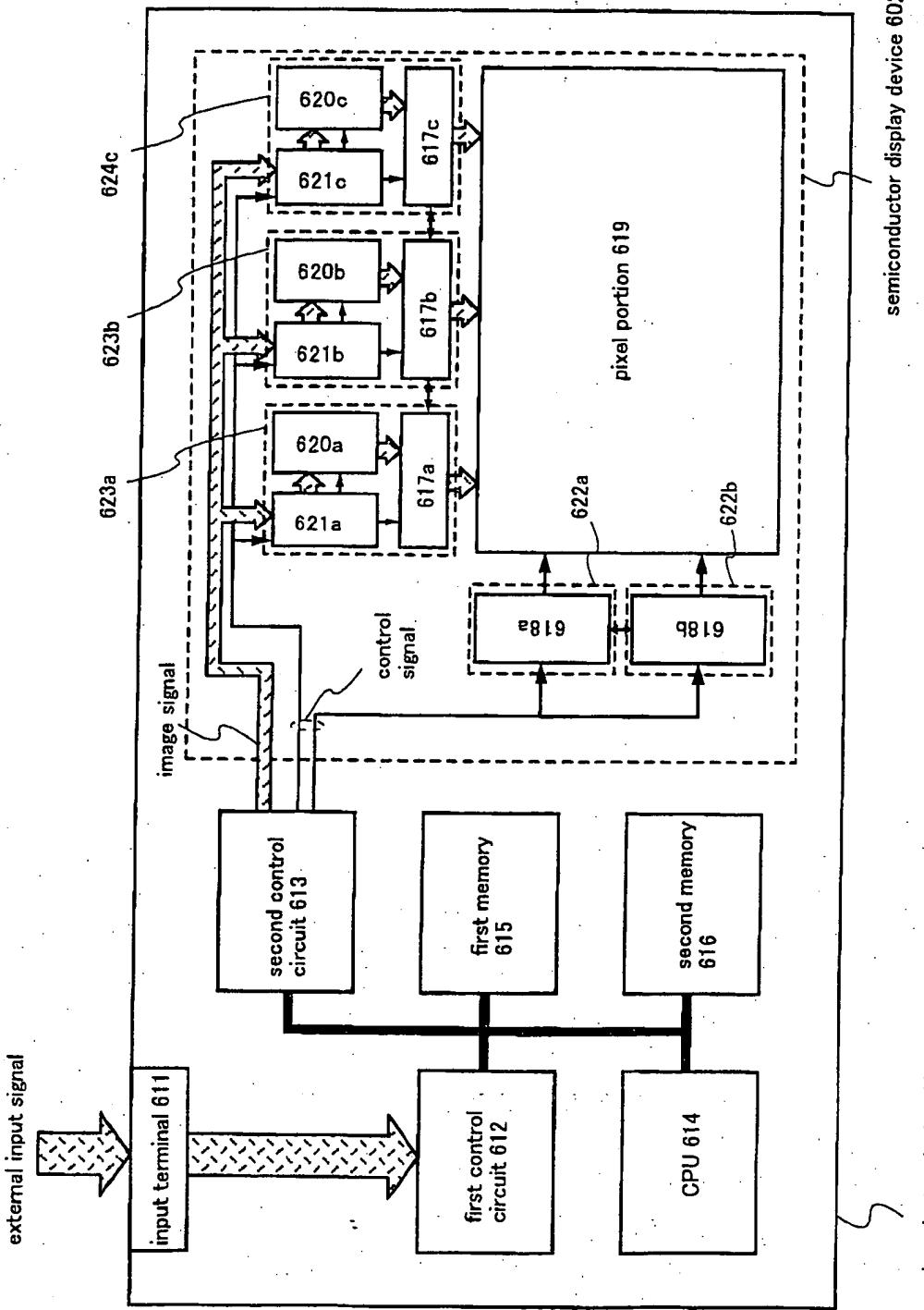
[Fig. 4]



[Fig. 5]



[Fig. 6]

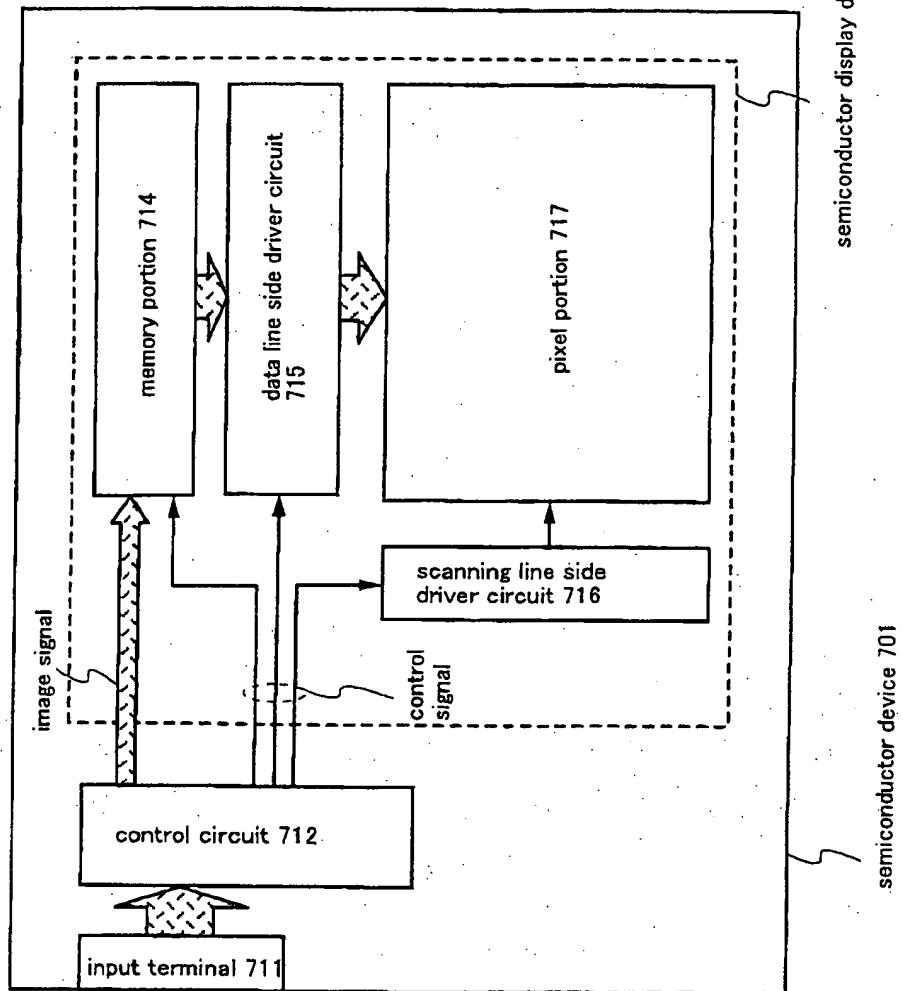


semiconductor device 601

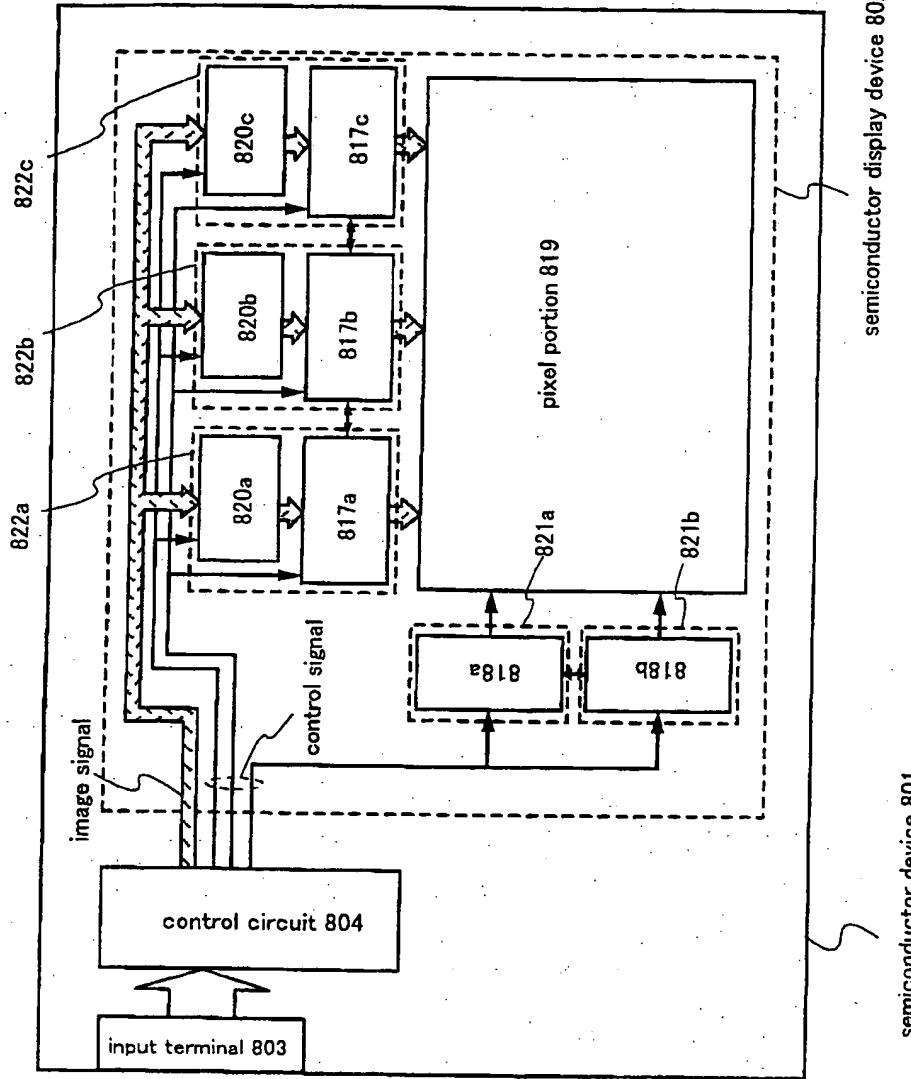
semiconductor display device 602

617a, 617b, 617c data line side driver circuit 618a, 618b scanning line side driver circuit
620a, 620b, 620c memory portion 621a, 621b, 621c memory control circuit
622a, 622b scanning line side stick driver 623a, 623b, 623c data line side stick driver

【Fig. 7】



【Fig. 8】



semiconductor display device 802

semiconductor device 801

817a, 817b, 817c data line side driver circuit 818a, 818b scanning line side driver circuit
820a, 820b, 820c memory portion 821a, 821b scanning line side stick driver
822a, 822b, 822c data line side stick driver

Fig. 9(A)

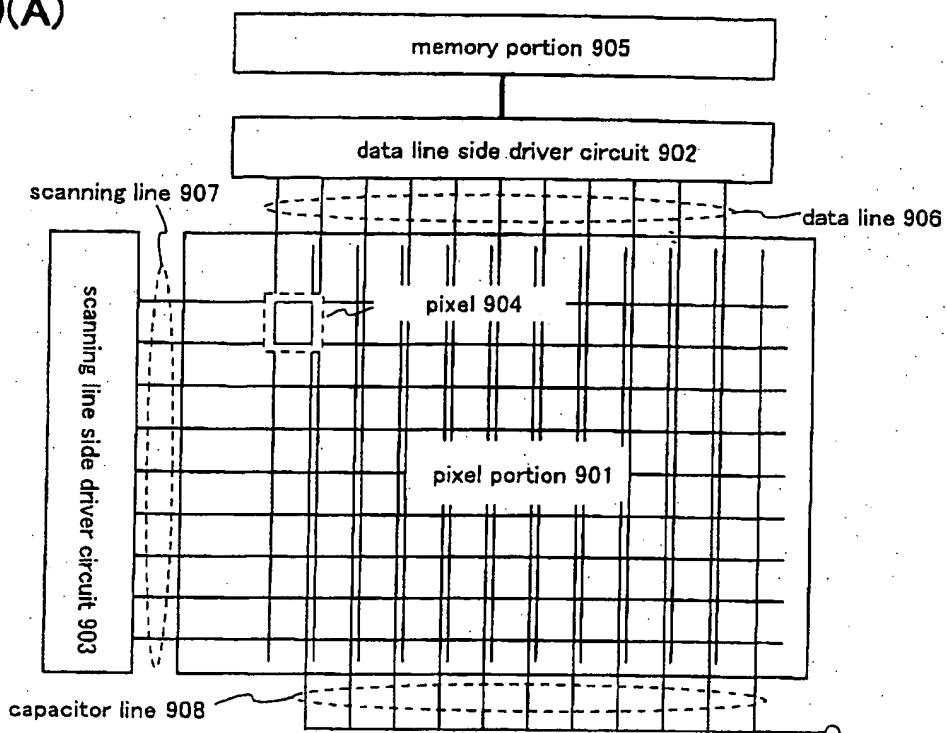
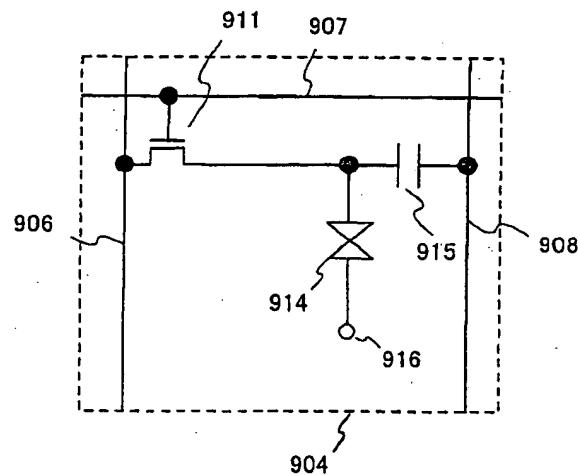


Fig. 9(B)



904 pixel 908 capacitor line 906 data line
907 scanning line 911 switching TFT
914 liquid crystal element 915 capacitor 916
counter electrode

Fig. 10 (A)

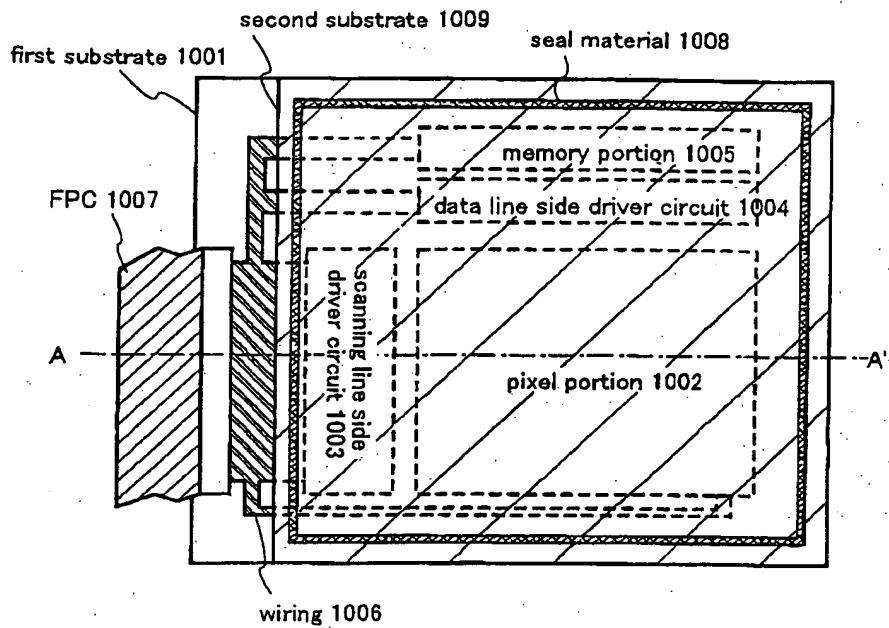


Fig. 10 (B)

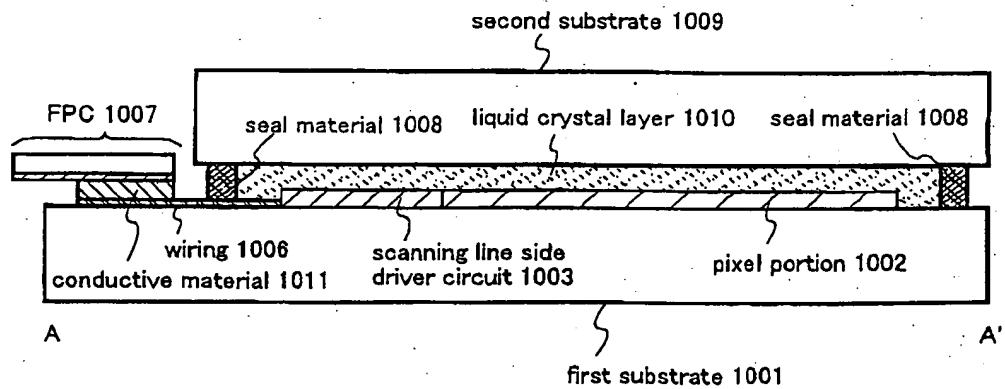
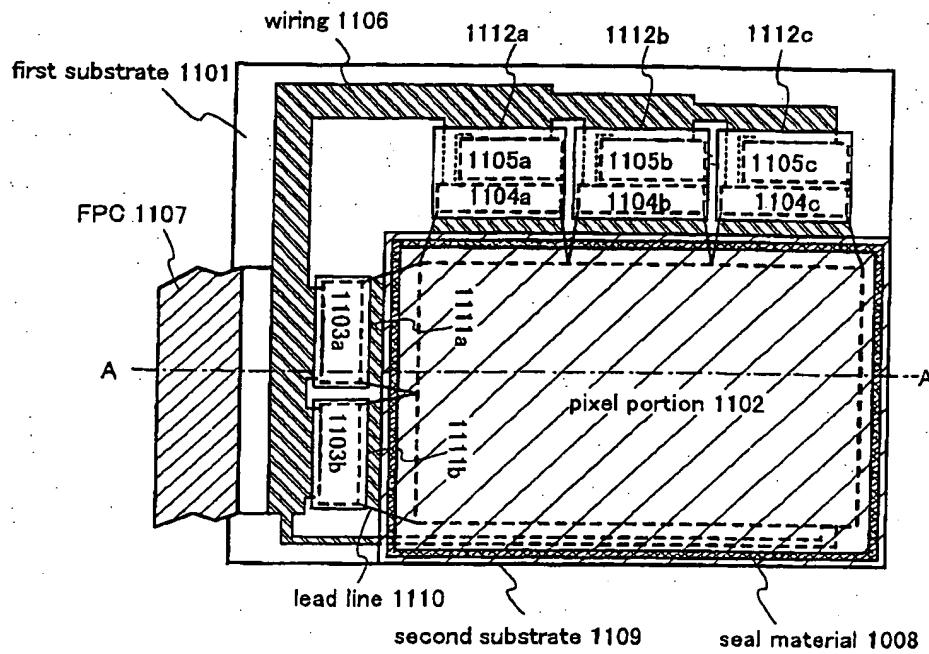


Fig. 11 (A)



1103a, 1103b scanning line side driver circuit
1104a, 1104b, 1104c data line side driver circuit
1105a, 1105b, 1105c memory portion
1111a, 1111b scanning line side stick driver
1112a, 1112b, 1112c data line side stick driver

Fig. 11 (B)

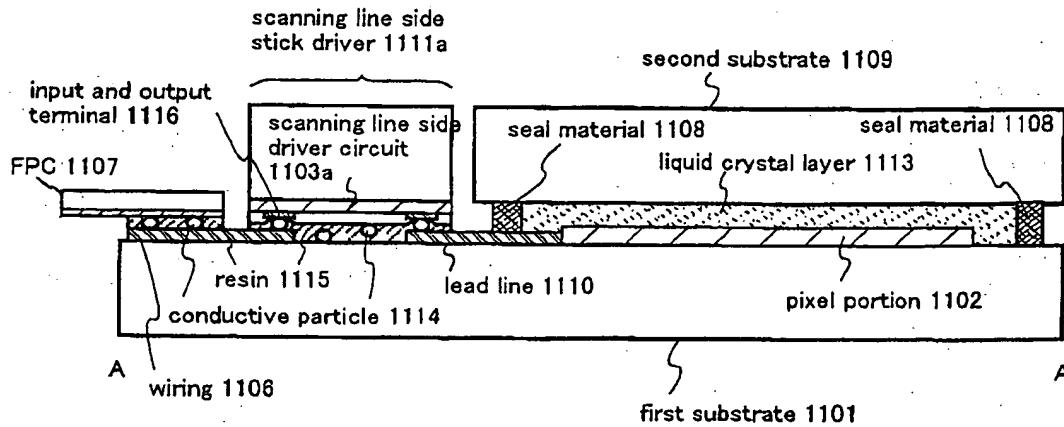


Fig. 12(A)

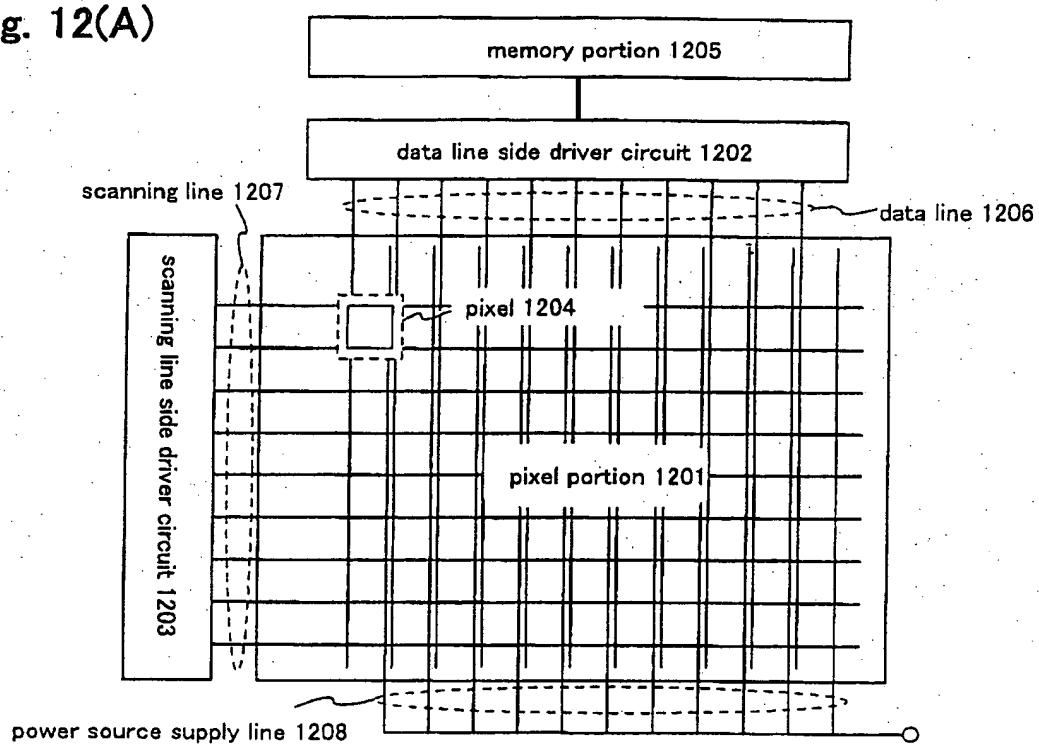
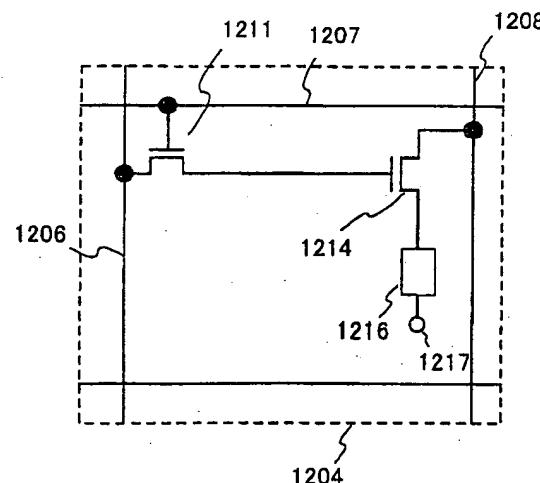


Fig. 12(B)



1204 pixel 1206 data line 1207 scanning line
1208 power source supply line 1211 switchin TFT
1214 EL driving TFT 1216 EL element 1217
counter electrode

Fig. 13(A)

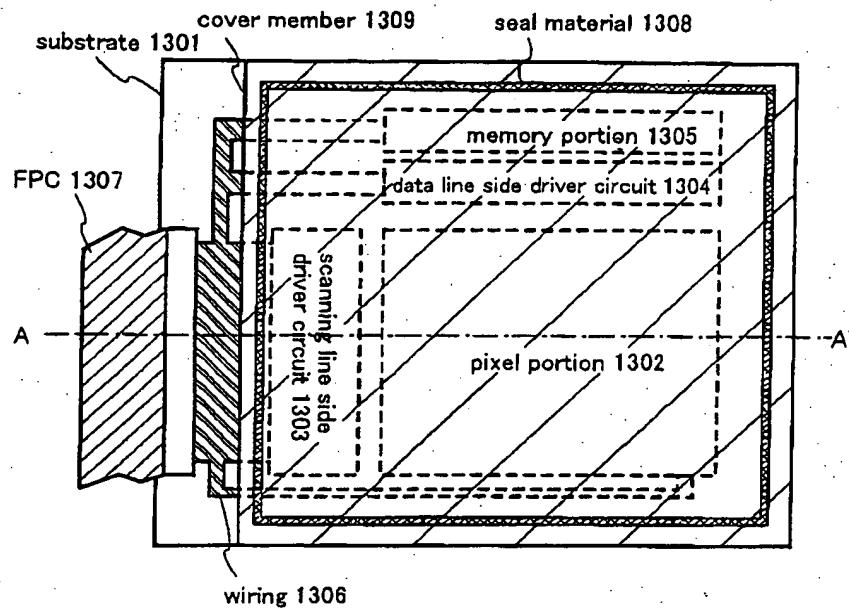


Fig. 13(B)

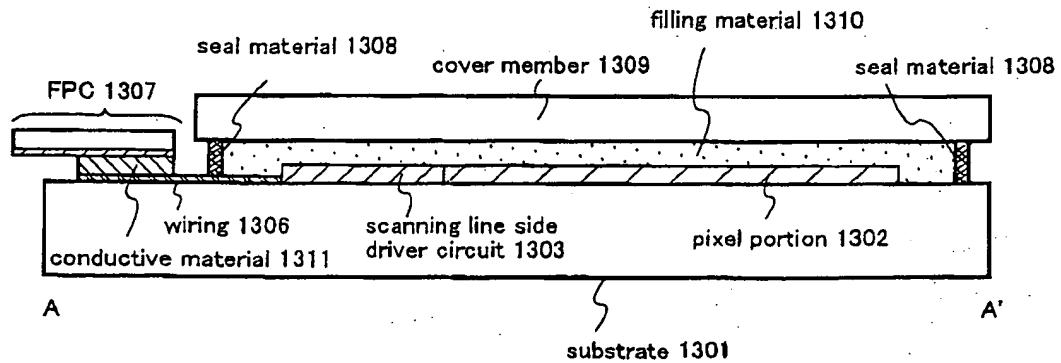
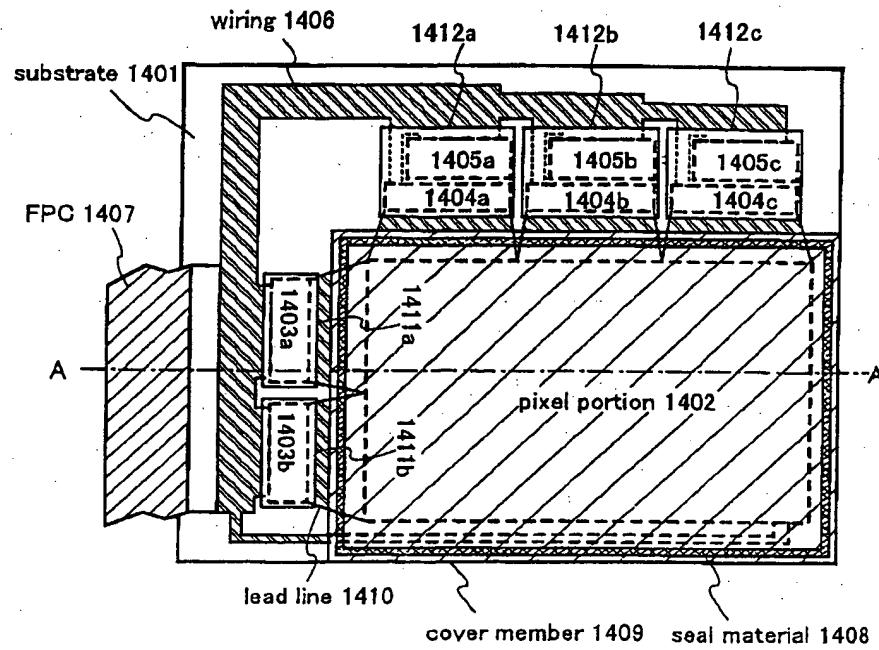


Fig. 14(A)



1403a, 1403b scanning line side driver circuit
1404a, 1404b, 1404c data line side driver circuit
1405a, 1405b, 1405c memory portion
1411a, 1411b scanning line side stick driver
1412a, 1412b, 1412c data line side stick driver

Fig. 14(B)

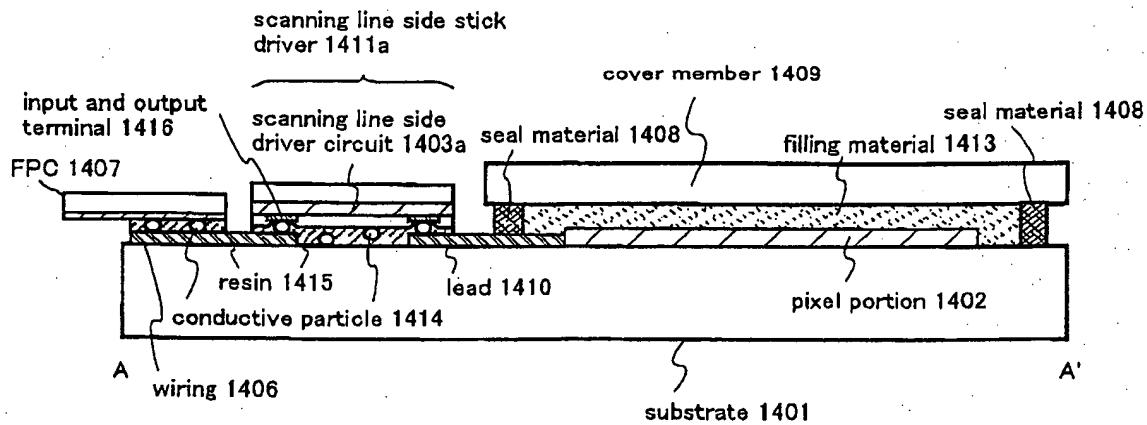


Fig. 15(A)

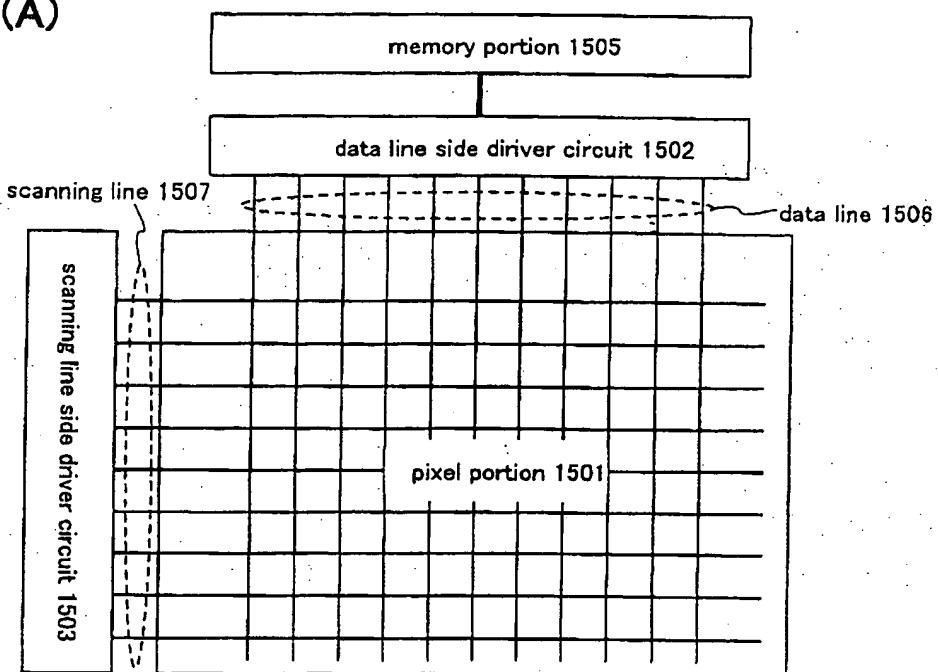
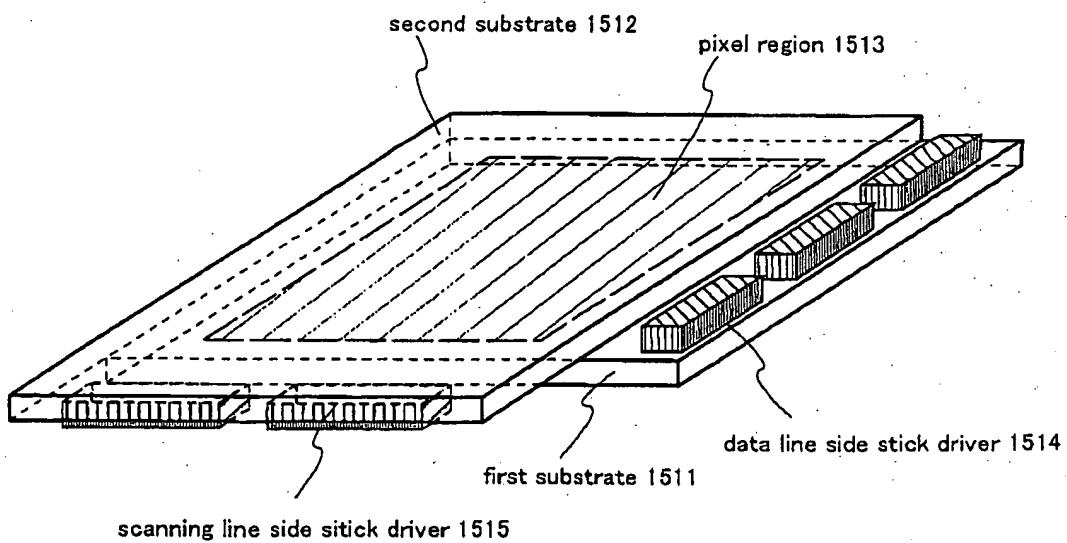


Fig. 15(B)



[Fig. 16]

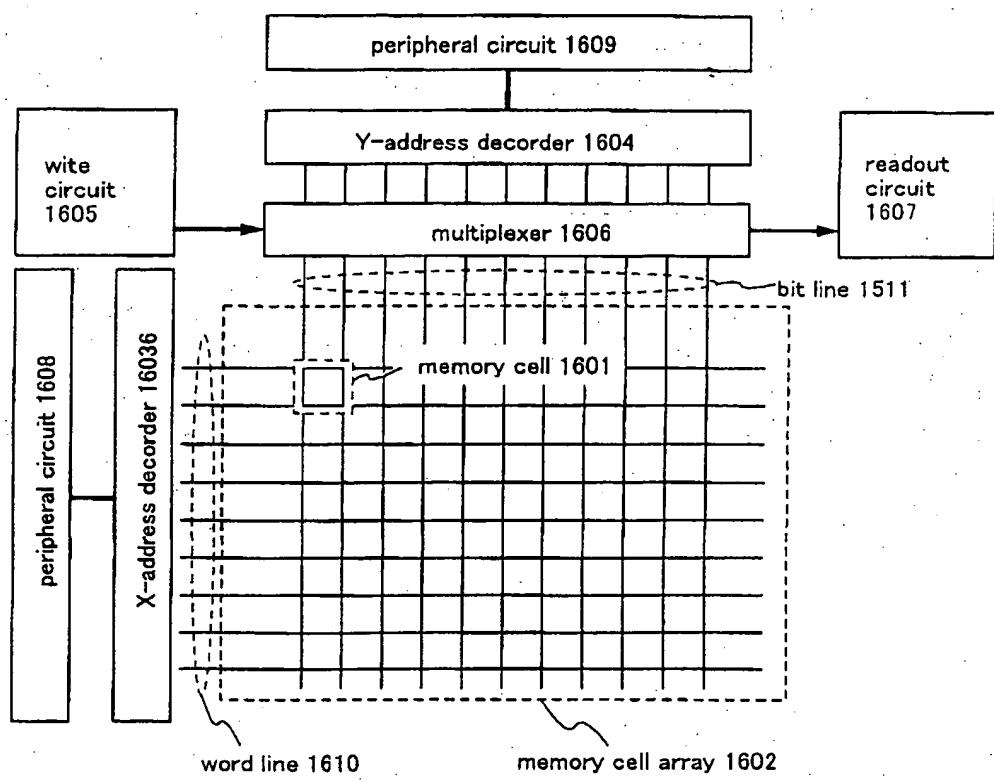


Fig. 17(A)

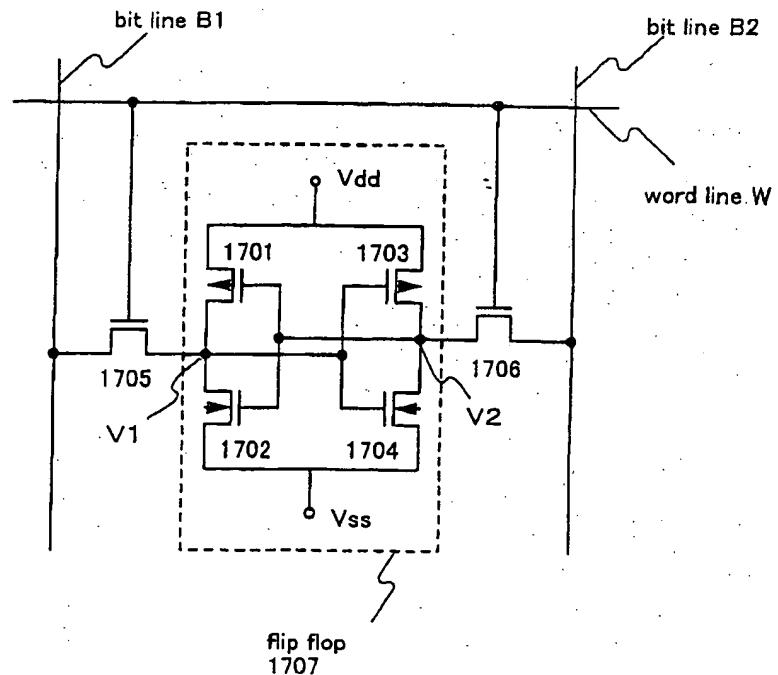
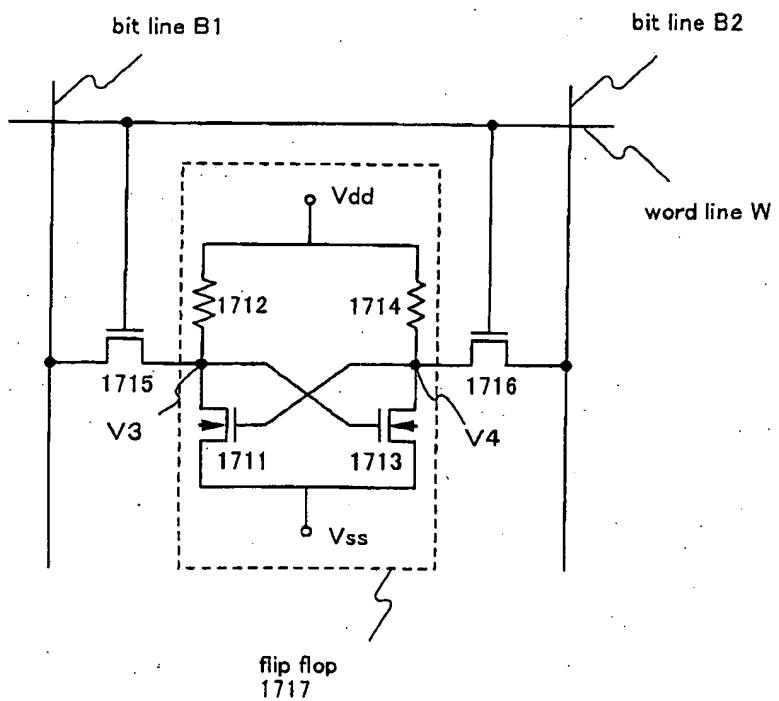
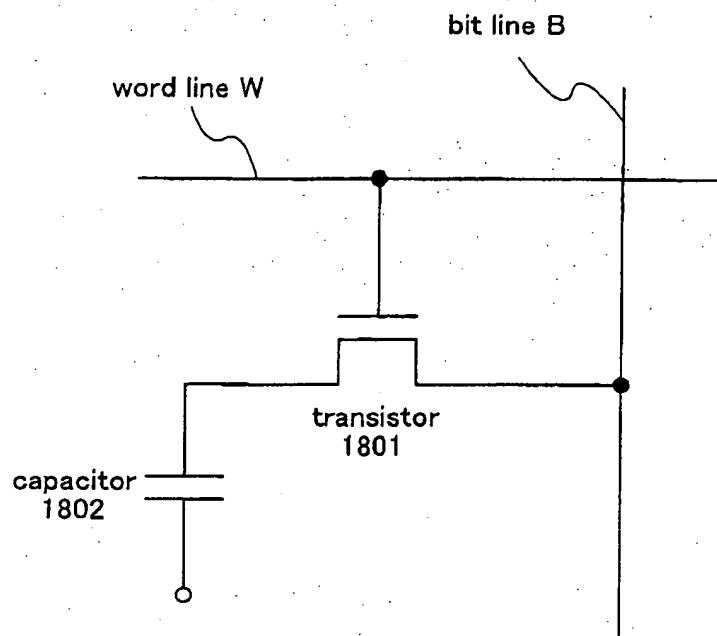


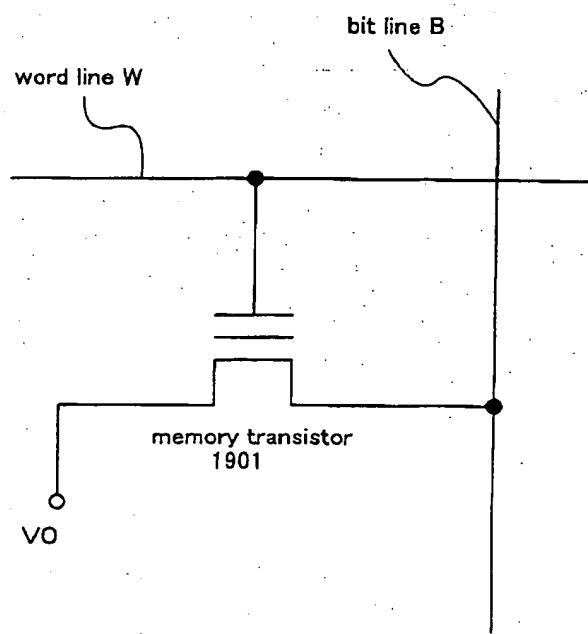
Fig. 17(B)



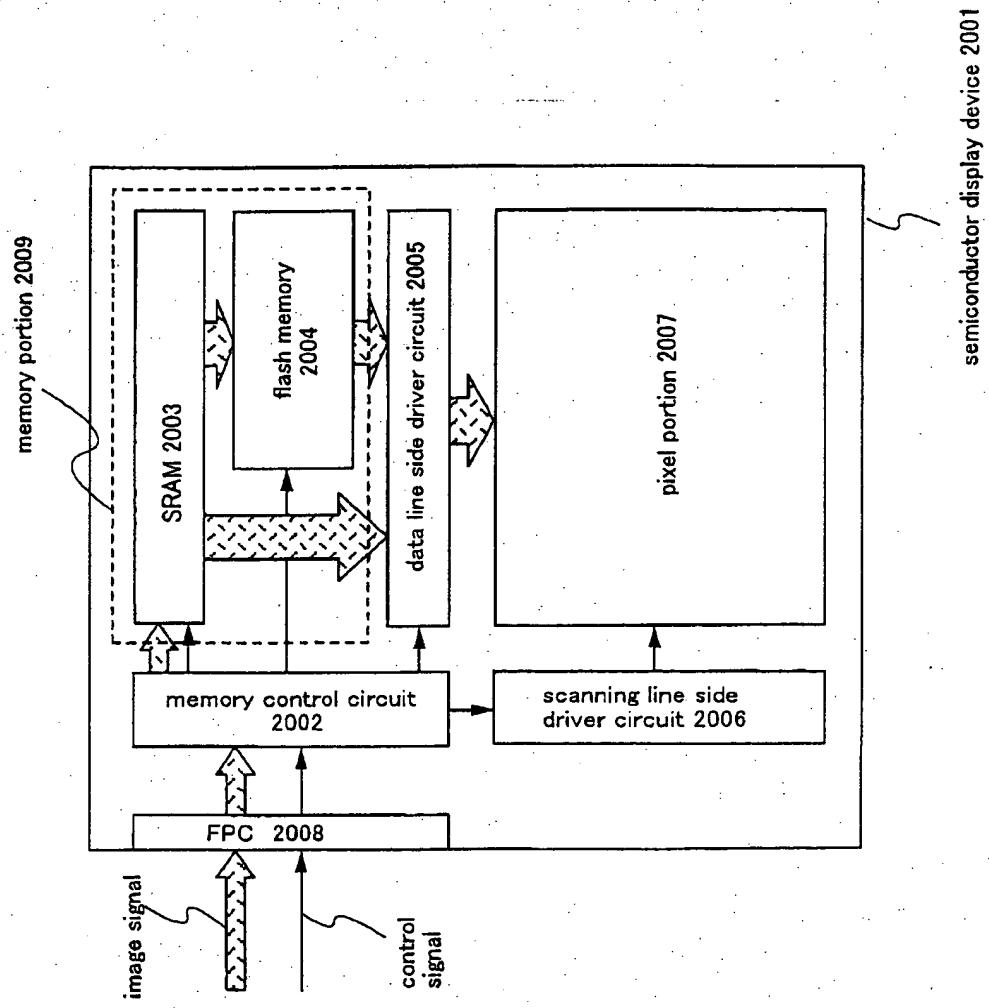
[Fig. 18]



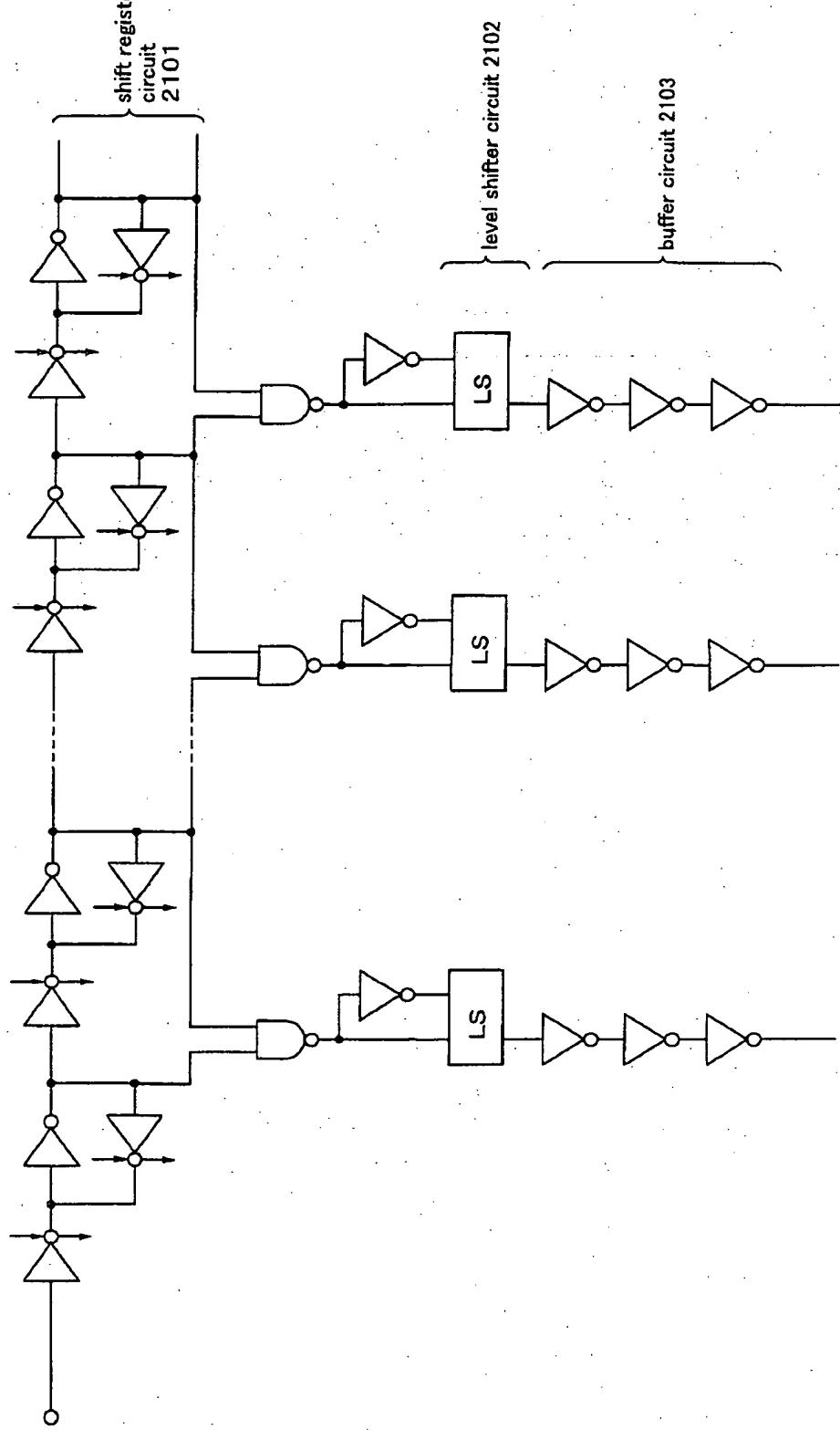
[Fig. 19]



[Fig. 20]



【Fig. 21】



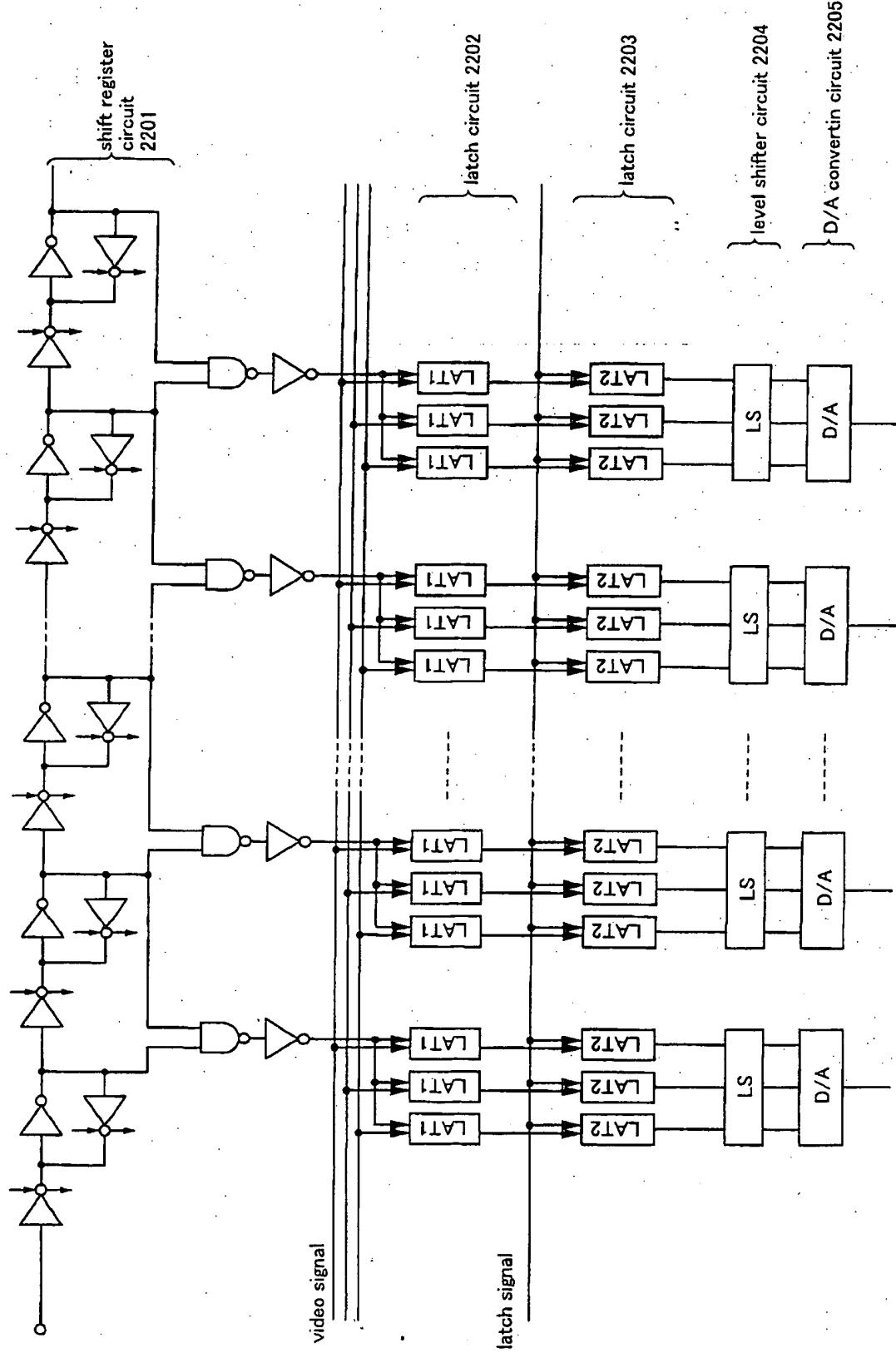


Fig. 22

Fig. 23(A) formation of island-like semiconductor layer, gate insulating film, and first and second conductive film for gate electrode

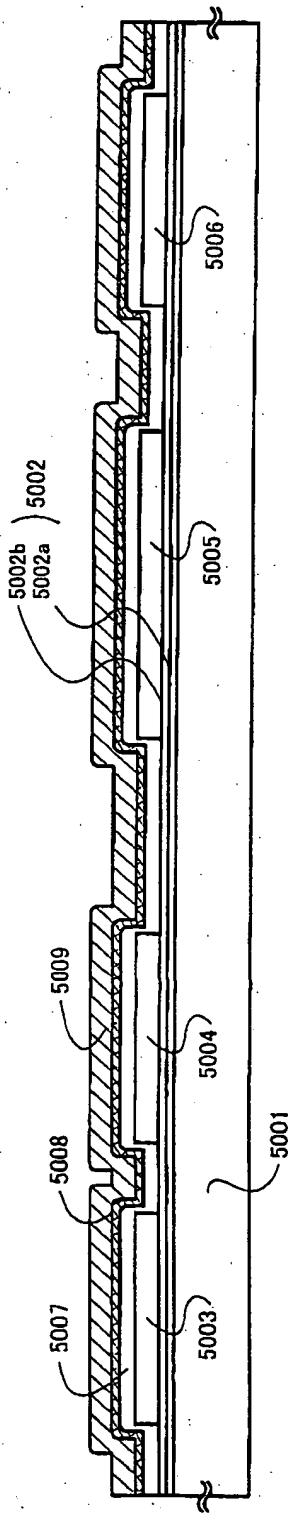


Fig. 23(B) first etching processing, first doping processing

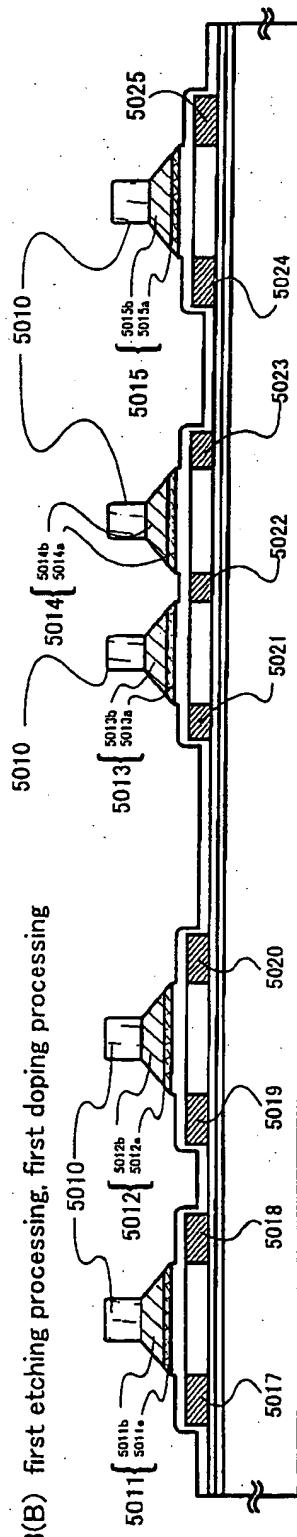
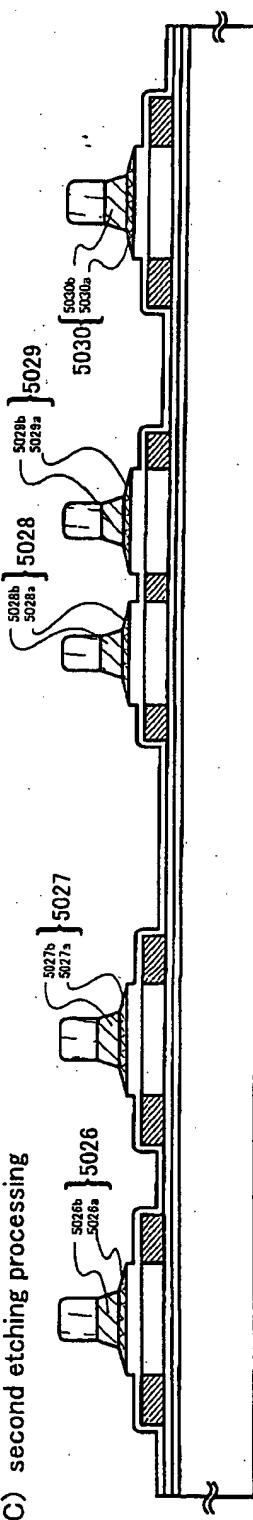


Fig. 23(C) second etching processing



5001 : substrate

5002 : base film

5003 ~ 5006 : semiconductor layer

5007 : gate insulating film

5008 : first conductive film

5009 : second conductive film

5010 : resist mask

5011 ~ 5015 : first shaped

conducting layer

5011a ~ 5015a : first conductive layer

5011b ~ 5015b : second conductive layer

5017 ~ 5025 : first impurity region

5026 ~ 5030 : second shaped

conducting layer

5026a ~ 5030a : first conductive layer

5026b ~ 5030b : second conductive layer

【Fig. 24】

Fig. 24(A) second doping processing

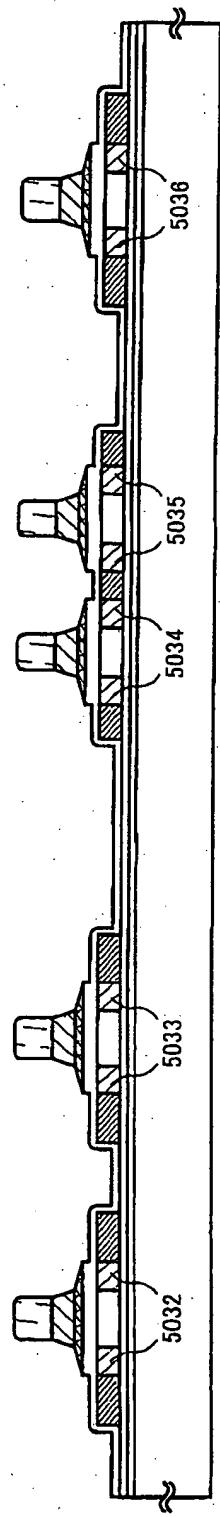


Fig. 24(B) third etching processing

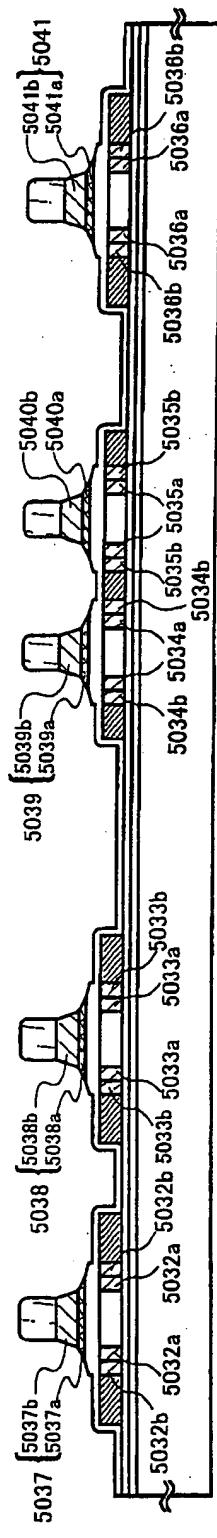
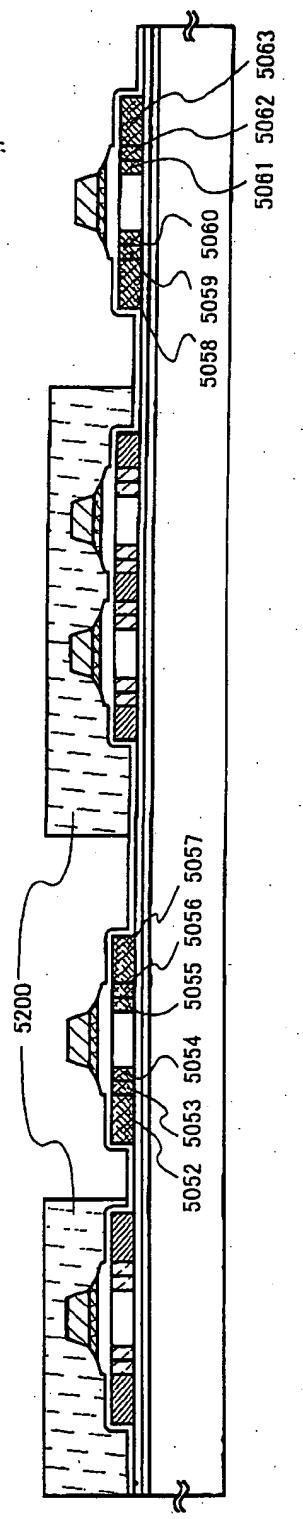


Fig. 24(C) third doping processing



5032 ~ 5036 : second impurity region
5032a ~ 5036a : third impurity region
5032b ~ 5036b : fourth impurity region

5037 ~ 5041 : third shaped conductive layer
5052 ~ 5063 : fifth impurity region
5200 : regist mask

formation of first, second interlayer insulating films and wiring formation

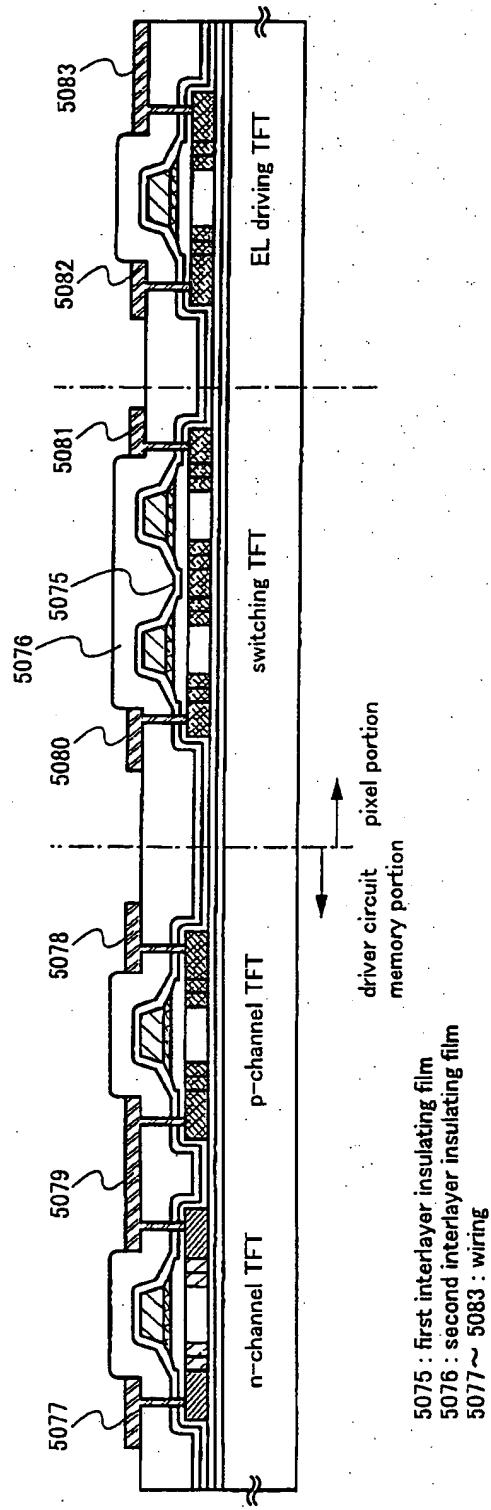
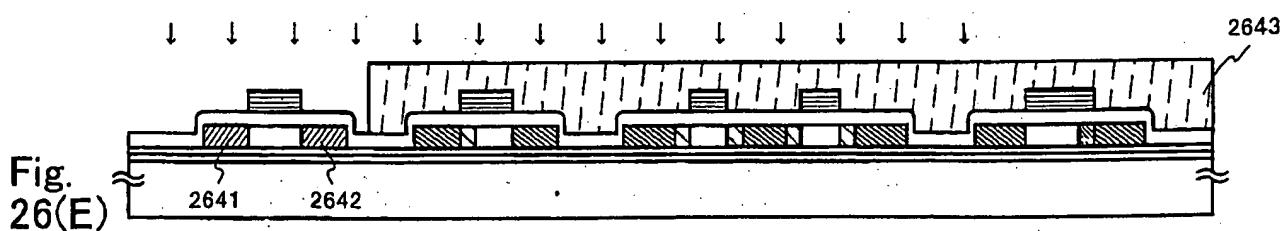
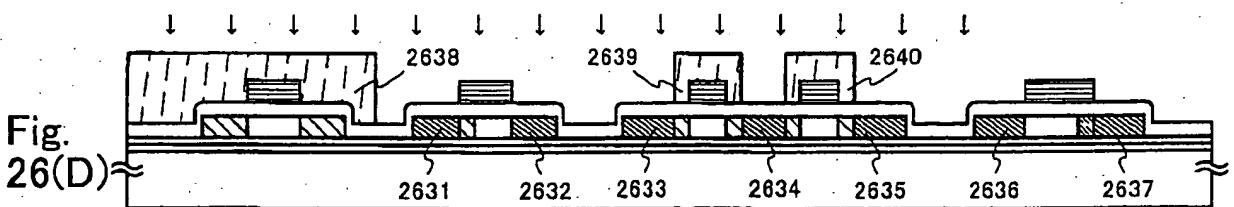
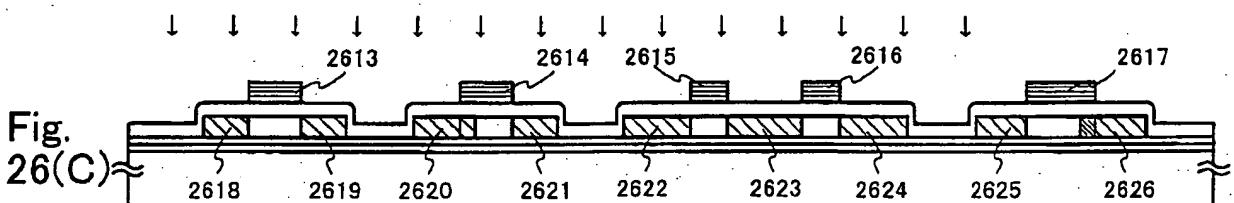
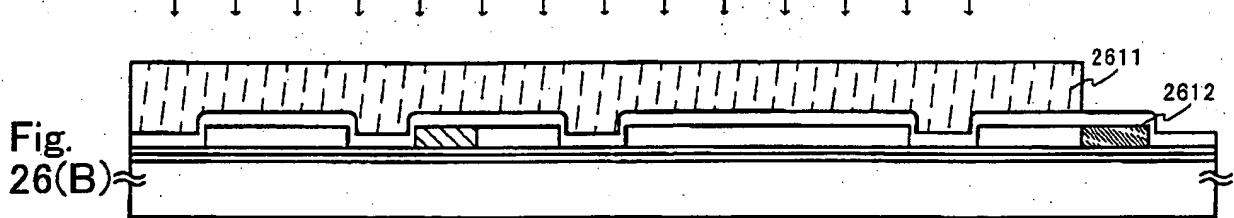
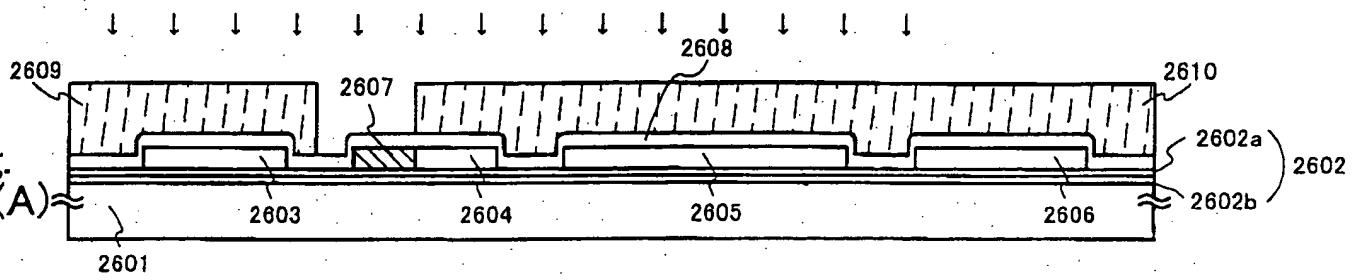


Fig. 25



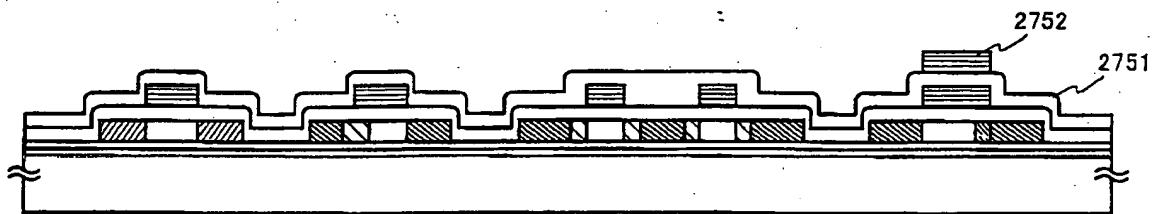


Fig.27(A)

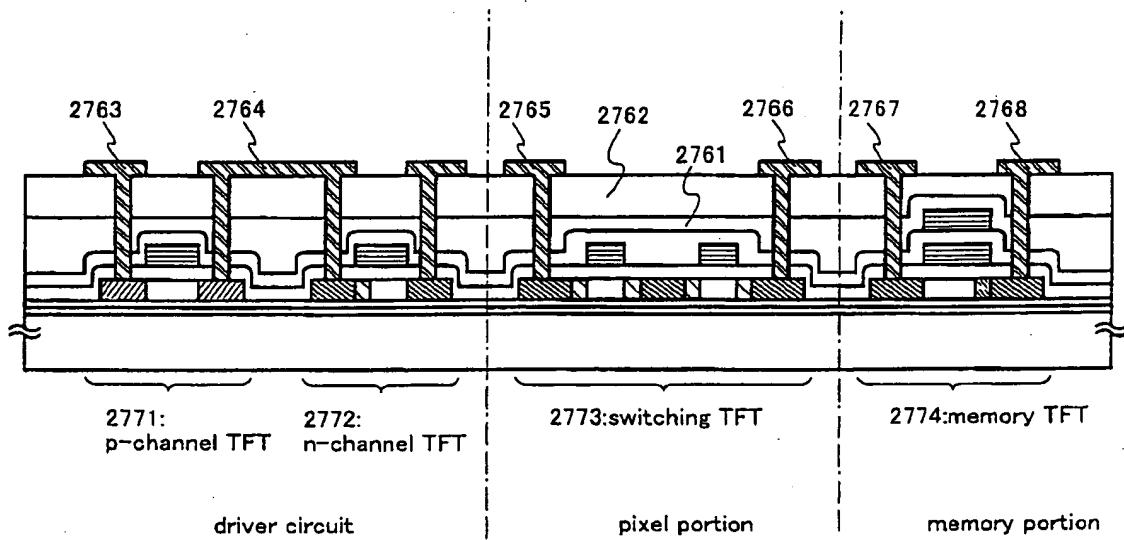


Fig.27(B)

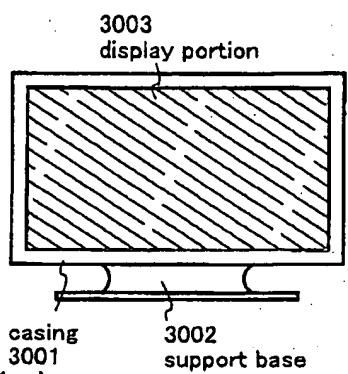


Fig. 28(A)

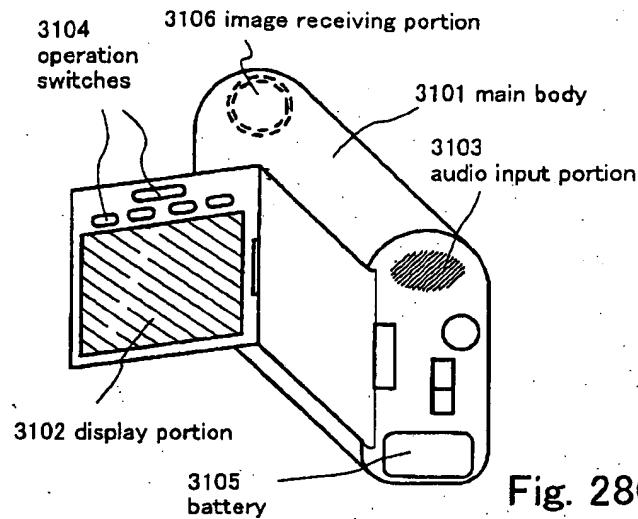


Fig. 28(B)

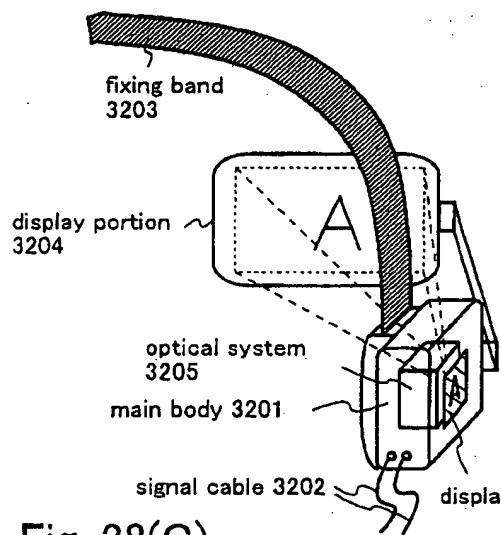


Fig. 28(C)

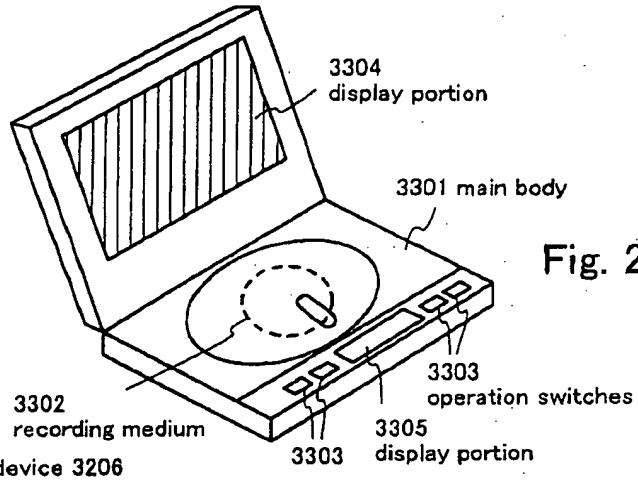


Fig. 28(D)

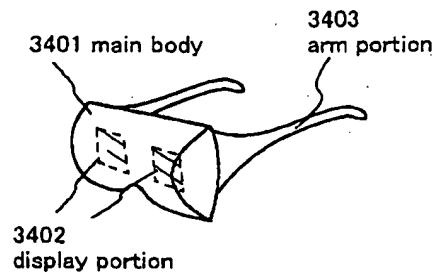


Fig. 28(E)

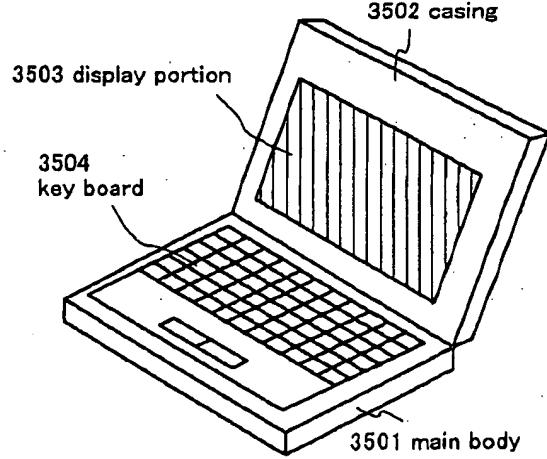


Fig. 28(F)

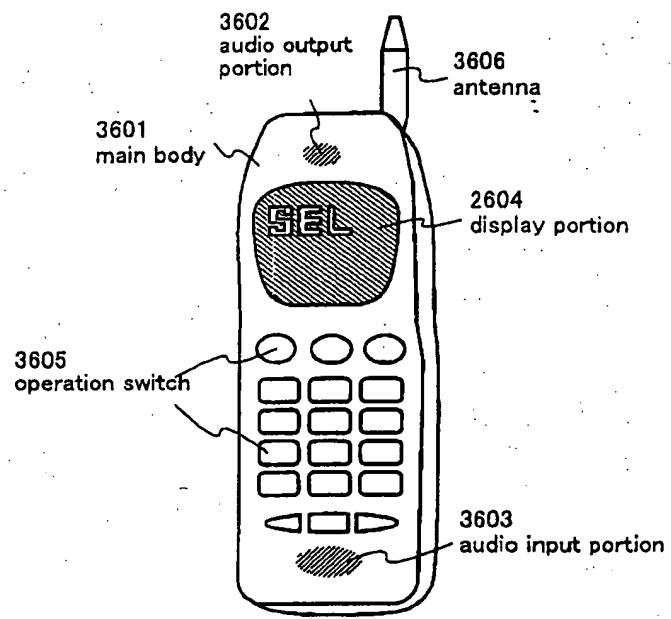


Fig. 29(A)

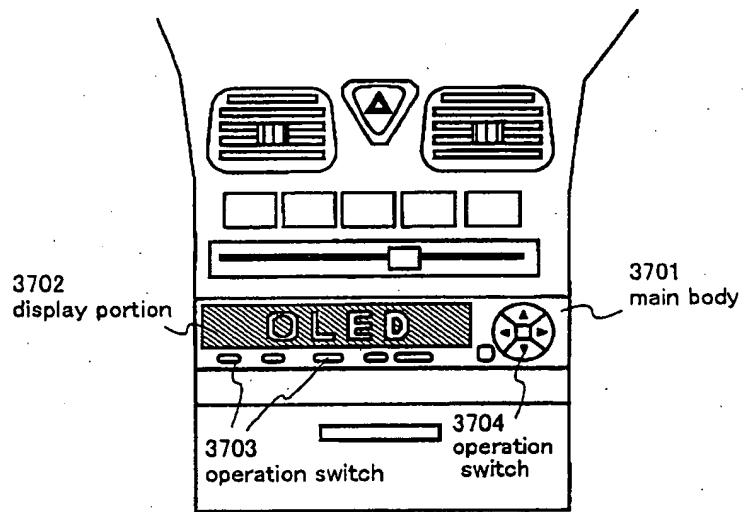


Fig. 29(B)